

CENTRAL INTELLIGENCE AGENCY INFORMATION REPORT

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COUNTRY

East Germany

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SUBJECT

Development of a Sinus Generator for an Analog Computing Machine (the Pepinsky-Buch Machine)

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SUPPLEMENT TO
REPORT NO. 25X1X

The Work Group for Crystal Structure Analysis in the Academy Institute for Medicine and Biology in Berlin-Buch has completed the blueprints for the element (sinus generator) of its projected analog computing machine for the solution of two-dimensional Fourier syntheses. The main parts of the element, of which 840 are to be in the machine, are:

- a. A DC motor with an operating voltage of between 6 and 24 volts. The exact voltage has not yet been determined. The motor has a permanent magnet, pole shoes and a rotor. The latter piece of equipment makes it possible to set the phase value by a through long distance operation.
- b. Differential gear (Planetengetriebe).
- c. A direct current rotary field system of 24 volts with a resistance disk. 1/

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